

### Claims

What is claimed is:

1. A method of generating audience analytics comprising:
  - providing a database containing a plurality of user input pattern profiles representing a group of users of a terminal device, wherein each user of the group is associated with one of the plurality of user input pattern profiles;
  - detecting a user input pattern based upon use of the terminal device by a current user;
  - dynamically matching the user input pattern of the current user with one of the user input pattern profiles contained in the database;
  - identifying the current user based upon dynamic matching of the user input pattern generated by the current user with one of the user input pattern profiles;
  - processing each user input pattern profile to identify a demographic type;
  - providing a plurality of biometric behavior models wherein each biometric behavior model identifies a unique demographic type;
  - comparing each user input pattern profile against the plurality of biometric behavior models to match each user input pattern profile with one of the biometric behavior models such that each user input pattern profile is correlated with one demographic type; and
  - generating an audience analytic based upon the identified demographic types.
2. A method of generating audience analytics comprising:
  - providing a database containing a plurality of user input pattern profiles representing a group of users of a terminal device, wherein each user of the group is associated with one of the plurality of user input pattern profiles;
  - using a clickstream algorithm to generate the plurality of user input pattern profiles;
  - detecting a user input pattern based upon use of the terminal device by a current user;
  - dynamically matching the user input pattern of the current user with one of the user input pattern profiles contained in the database;
  - identifying the current user based upon dynamic matching of the user input pattern generated by the current user with one of the user input pattern profiles;
  - processing each user input pattern profile to identify a demographic type;
  - providing a plurality of biometric behavior models wherein each biometric behavior model identifies a unique demographic type;

comparing each user input pattern profile against the plurality of biometric behavior models to match each user input pattern profile with one of the biometric behavior models such that each user input pattern profile is correlated with one demographic type; and

generating an audience analytic based upon the identified demographic types.

3. A method of generating audience analytics comprising:

providing a database containing a plurality of user input pattern profiles representing a group of users of a terminal device, wherein each user of the group is associated with one of the plurality of user input pattern profiles;

using a tracking algorithm to generate the plurality of user input pattern profiles;

detecting a user input pattern based upon use of the terminal device by a current user;

dynamically matching the user input pattern of the current user with one of the user input pattern profiles contained in the database;

identifying the current user based upon dynamic matching of the user input pattern generated by the current user with one of the user input pattern profiles;

processing each user input pattern profile to identify a demographic type;

providing a plurality of biometric behavior models wherein each biometric behavior model identifies a unique demographic type;

comparing each user input pattern profile against the plurality of biometric behavior models to match each user input pattern profile with one of the biometric behavior models such that each user input pattern profile is correlated with one demographic type; and

generating an audience analytic based upon the identified demographic types.

4. A method of generating audience analytics comprising:

providing a database containing a plurality of user input pattern profiles representing a group of users of a terminal device, wherein each user of the group is associated with one of the plurality of user input pattern profiles;

using a neural network to generate the plurality of user input pattern profiles;

detecting a user input pattern based upon use of the terminal device by a current user;

dynamically matching the user input pattern of the current user with one of the user input pattern profiles contained in the database;

identifying the current user based upon dynamic matching of the user input pattern generated by the current user with one of the user input pattern profiles;

- processing each user input pattern profile to identify a demographic type;
  - providing a plurality of biometric behavior models wherein each biometric behavior model identifies a unique demographic type;
  - comparing each user input pattern profile against the plurality of biometric behavior models to match each user input pattern profile with one of the biometric behavior models such that each user input pattern profile is correlated with one demographic type; and
  - generating an audience analytic based upon the identified demographic types.
5. A method of generating audience analytics comprising:
- providing a database containing a plurality of user input pattern profiles representing a group of users of a terminal device, wherein each user of the group is associated with one of the plurality of user input pattern profiles;
  - using a Bayes classifier algorithm to generate the plurality of user input pattern profiles;
  - detecting a user input pattern based upon use of the terminal device by a current user;
  - dynamically matching the user input pattern of the current user with one of the user input pattern profiles contained in the database;
  - identifying the current user based upon dynamic matching of the user input pattern generated by the current user with one of the user input pattern profiles;
  - processing each user input pattern profile to identify a demographic type;
  - providing a plurality of biometric behavior models wherein each biometric behavior model identifies a unique demographic type;
  - comparing each user input pattern profile against the plurality of biometric behavior models to match each user input pattern profile with one of the biometric behavior models such that each user input pattern profile is correlated with one demographic type; and
  - generating an audience analytic based upon the identified demographic types.
6. A method of generating audience analytics comprising:
- providing a database containing a plurality of user input pattern profiles representing a group of users of a terminal device, wherein each user of the group is associated with one of the plurality of user input pattern profiles;
  - using an affinity-day part algorithm to generate the plurality of user input pattern profiles;
  - detecting a user input pattern based upon use of the terminal device by a current user;
  - dynamically matching the user input pattern of the current user with one of the user input

pattern profiles contained in the database;

identifying the current user based upon dynamic matching of the user input pattern generated by the current user with one of the user input pattern profiles;

processing each user input pattern profile to identify a demographic type;

providing a plurality of biometric behavior models wherein each biometric behavior model identifies a unique demographic type;

comparing each user input pattern profile against the plurality of biometric behavior models to match each user input pattern profile with one of the biometric behavior models such that each user input pattern profile is correlated with one demographic type; and

generating an audience analytic based upon the identified demographic types.

7. The method as in any one of claims 1 – 6 wherein the user input pattern of the current user comprises clickstream data.

8. The method of claim 7 wherein the clickstream data relates to particular Web sites visited by the user or the duration of visits to the Web sites.

9. The method as in any one of claims 1 – 6 wherein the database providing step comprises generating a user input pattern profile for each user based upon clickstream data generated by the user when using the terminal device.

10. The method as in any one of claims 1 - 6 wherein the user input pattern comprises user keystroke data.

11. The method of claim 10 wherein the keystroke data comprises digraph interval data.

12. The method as in any one of claims 1 - 6 wherein the user input pattern comprises user mouse usage data.

13. The method as in any one of claims 1 – 6 wherein the user input pattern comprises user remote control usage data.

14. The method as in any one of claims 1 – 6 wherein the terminal device comprises a computer.

15. The method as in any one of claims 1 – 6 wherein the terminal device comprises a television set top box.

16. The method as in any one of claims 1 – 6 wherein the steps are implemented in a computer, and the computer communicates with the terminal device over a network.

17. The method of claim 16 wherein the network comprises the Internet.

18. The method of claim 16 wherein the network comprises a nodal television distribution network.
19. The method as in any one of claims 1 – 6 wherein detecting a user input pattern based upon use of the terminal device by a current user further comprises using a fusion algorithm.
20. The method as in any one of claims 1 – 6 further comprising transmitting targeted content to the current user in accordance with the dynamically-matched user input pattern profile.
21. The method as in any one of claims 1 – 6 further comprising transmitting targeted advertising to the current user in accordance with the dynamically-matched user input pattern profile.
22. A system for generating audience analytics, the system comprising:
- means for providing a database containing a plurality of user input pattern profiles representing a group of users of a terminal device, wherein each user of the group is associated with one of the plurality of user input pattern profiles;
  - means for detecting a user input pattern based upon use of the terminal device by a current user;
  - means, responsive to the means for detecting the user input pattern, for dynamically matching the user input pattern of the current user with one of the user input pattern profiles contained in the database;
  - means for identifying the current user based upon dynamic matching of the user input pattern generated by the current user with one of the user input pattern profiles;
  - means for processing each user input pattern profile to identify a demographic type;
  - means for providing a plurality of biometric behavior models wherein each biometric behavior model identifies a unique demographic type;
  - means for comparing each user input pattern profile against the plurality of biometric behavior models to match each user input pattern profile with one of the biometric behavior models such that each user input pattern profile is correlated with one demographic type; and
  - means for generating an audience analytic based upon the identified demographic types.
23. A system for generating audience analytics, the system comprising:
- means for providing a database containing a plurality of user input pattern profiles representing a group of users of a terminal device, wherein each user of the group is associated with one of the plurality of user input pattern profiles;

means for using a clickstream algorithm to generate the plurality of user input pattern profiles;

means for detecting a user input pattern based upon use of the terminal device by a current user;

means, responsive to the means for detecting the user input pattern, for dynamically matching the user input pattern of the current user with one of the user input pattern profiles contained in the database;

means for identifying the current user based upon dynamic matching of the user input pattern generated by the current user with one of the user input pattern profiles;

means for processing each user input pattern profile to identify a demographic type;

means for providing a plurality of biometric behavior models wherein each biometric behavior model identifies a unique demographic type;

means for comparing each user input pattern profile against the plurality of biometric behavior models to match each user input pattern profile with one of the biometric behavior models such that each user input pattern profile is correlated with one demographic type; and

means for generating an audience analytic based upon the identified demographic types.

24. A system for generating audience analytics, the system comprising:

means for providing a database containing a plurality of user input pattern profiles representing a group of users of a terminal device, wherein each user of the group is associated with one of the plurality of user input pattern profiles;

means for using a tracking algorithm to generate the plurality of user input pattern profiles;

means for detecting a user input pattern based upon use of the terminal device by a current user;

means, responsive to the means for detecting the user input pattern, for dynamically matching the user input pattern of the current user with one of the user input pattern profiles contained in the database;

means for identifying the current user based upon dynamic matching of the user input pattern generated by the current user with one of the user input pattern profiles;

means for processing each user input pattern profile to identify a demographic type;

means for providing a plurality of biometric behavior models wherein each biometric

behavior model identifies a unique demographic type;

means for comparing each user input pattern profile against the plurality of biometric behavior models to match each user input pattern profile with one of the biometric behavior models such that each user input pattern profile is correlated with one demographic type; and

means for generating an audience analytic based upon the identified demographic types.

25. A system for generating audience analytics, the system comprising:

means for providing a database containing a plurality of user input pattern profiles representing a group of users of a terminal device, wherein each user of the group is associated with one of the plurality of user input pattern profiles;

means for using a neural network to generate the plurality of user input pattern profiles;

means for detecting a user input pattern based upon use of the terminal device by a current user;

means, responsive to the means for detecting the user input pattern, for dynamically matching the user input pattern of the current user with one of the user input pattern profiles contained in the database;

means for identifying the current user based upon dynamic matching of the user input pattern generated by the current user with one of the user input pattern profiles;

means for processing each user input pattern profile to identify a demographic type;

means for providing a plurality of biometric behavior models wherein each biometric behavior model identifies a unique demographic type;

means for comparing each user input pattern profile against the plurality of biometric behavior models to match each user input pattern profile with one of the biometric behavior models such that each user input pattern profile is correlated with one demographic type; and

means for generating an audience analytic based upon the identified demographic types.

26. A system for generating audience analytics, the system comprising:

means for providing a database containing a plurality of user input pattern profiles representing a group of users of a terminal device, wherein each user of the group is associated with one of the plurality of user input pattern profiles;

means for using a Bayes classifier algorithm to generate the plurality of user input pattern profiles;

means for detecting a user input pattern based upon use of the terminal device by a current user;

means, responsive to the means for detecting the user input pattern, for dynamically matching the user input pattern of the current user with one of the user input pattern profiles contained in the database;

means for identifying the current user based upon dynamic matching of the user input pattern generated by the current user with one of the user input pattern profiles;

means for processing each user input pattern profile to identify a demographic type;

means for providing a plurality of biometric behavior models wherein each biometric behavior model identifies a unique demographic type;

means for comparing each user input pattern profile against the plurality of biometric behavior models to match each user input pattern profile with one of the biometric behavior models such that each user input pattern profile is correlated with one demographic type; and

means for generating an audience analytic based upon the identified demographic types.

27. A system for generating audience analytics, the system comprising:

means for providing a database containing a plurality of user input pattern profiles representing a group of users of a terminal device, wherein each user of the group is associated with one of the plurality of user input pattern profiles;

means for using an affinity-day part algorithm to generate the plurality of user input pattern profiles;

means for detecting a user input pattern based upon use of the terminal device by a current user;

means, responsive to the means for detecting the user input pattern, for dynamically matching the user input pattern of the current user with one of the user input pattern profiles contained in the database;

means for identifying the current user based upon dynamic matching of the user input pattern generated by the current user with one of the user input pattern profiles;

means for processing each user input pattern profile to identify a demographic type;

means for providing a plurality of biometric behavior models wherein each biometric behavior model identifies a unique demographic type;

means for comparing each user input pattern profile against the plurality of biometric



behavior models to match each user input pattern profile with one of the biometric behavior models such that each user input pattern profile is correlated with one demographic type; and means for generating an audience analytic based upon the identified demographic types.

28. The system as in any one of claims 22 - 27 wherein the user input pattern of the current user comprises clickstream data.
29. The system of claim 28 wherein the clickstream data relates to particular Web sites visited by the user or the duration of visits to the Web sites.
30. The system as in any one of claims 22 - 27 wherein the database providing step comprises generating a user input pattern profile for each user based upon clickstream data generated by the user when using the terminal device.
31. The system as in any one of claims 22 - 27 wherein the user input pattern comprises user keystroke data.
32. The system of claim 31 wherein the keystroke data comprises digraph interval data.
33. The system as in any one of claims 22 - 27 wherein the user input pattern comprises user mouse usage data.
34. The system as in any one of claims 22 - 27 wherein the user input pattern comprises user remote control usage data.
35. The system as in any one of claims 22 - 27 wherein the terminal device comprises a computer.
36. The system as in any one of claims 22 - 27 wherein the terminal device comprises a television set top box.
37. The system as in any one of claims 22 - 27 wherein the steps are implemented in a computer, and the computer communicates with the terminal device over a network.
38. The system of claim 37 wherein the network comprises the Internet.
39. The system of claim 37 wherein the network comprises a nodal television distribution network.
40. The system as in any one of claims 22 - 27 wherein detecting a user input pattern based upon use of the terminal device by a current user further comprises using a fusion algorithm.
41. The system as in any one of claims 22 - 27 further comprising transmitting targeted content to the current user in accordance with the dynamically-matched user input pattern profile.

42. The system as in any one of claims 22 - 27 further comprising transmitting targeted advertising to the current user in accordance with the dynamically-matched user input pattern profile.